

General Information

Primary Accession # AJ272027

XP-002307112

Accession # AJ272027

Entry Name EMBL:ATH272027

Molecule Type genomic DNA

Sequence Length 5340

Entry Division PLN

Sequence Version AJ272027.1

Creation Date 09-FEB-2000

Modification Date 25-AUG-2000

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DescriptionDescription **Arabidopsis thaliana oasA1 gene for O-acetylserine (thiol) lyase A1, exons 1-11**Keywords **O-acetylserine (thiol) lyase A1**Organism **Arabidopsis thaliana (thale cress)**Organism Classification **Eukaryota****References**

1. Hell,R.;

Submitted (08-FEB-2000) to the EMBL/GenBank/DDBJ databases. Hell R., Molecular Cell Biology, Institute for Plant Genetics and Crop Plant Research, Corrensstrasse 3, 06466 Gatersleben, GERMANY.

Position 1-5340

2. Jost,R.; Berkowitz,O.; Wirtz,M.; Hopkins,L.; Hawkesford,M.J.; Hell,R.;
Genomic and functional characterization of the oas gene family encoding O-acetylserine (thiol) lyases, enzymes catalyzing the final step in cysteine biosynthesis in Arabidopsis thaliana
 Gene 253(2):237-247 (2000)

Medline 20400348

Pubmed 10940562

Additional Information**Features**

Key	Location	Qualifier	Value
source	1..5340	db_xref	taxon:3702
		mol_type	genomic DNA
		organism	Arabidopsis thaliana
		cultivar	Columbia
mrna	join(1821..1910, 2137..2182, 2270..2379, 2467..2524, 2605..2868, 2960..3097, 3195..3246, 3376..3455, 3563..3622, 3710..3790, 3899..4242)	gene	oasA1
exon	1821..1910	number	1
		gene	oasA1
intron	1911..2136	number	1
		gene	oasA1

exon 2137..2182**cds** join(2150..2182,
2270..2379, 2467..2524,
2605..2868, 2960..3097,
3195..3246, 3376..3455,
3563..3622, 3710..3790,
3899..3991)**number** 2**gene** oasA1**db_xref** GOA:P47998**db_xref** UniProt/Swiss-Prot:P47998**gene** oasA1**product** O-acetylserine (thiol) lyase A1**EC_number** 4.2.99.8**function** cysteine synthesis in cytoplasm**protein_id** CAB72932.1**translation**

```
>CAB72932
MASRIAKDVTELIGNTPLVYLNNAEGCVGRVAAKLEMME
GLIKPGESVLIETSGNTGVGLAFTAAAKGYKLIITMPAS
PAKGKGAIKAAEELAKTPNGYMLQQFENPANPKIHYET
GTGGTITGAGKYLKEQANVLYGVEPVESAILSGGKPGP
```

intron 2183..2269**number** 2**gene** oasA1**number** 3**gene** oasA1**number** 3**gene** oasA1**number** 4**gene** oasA1**number** 4**gene** oasA1**number** 5**gene** oasA1**number** 5**gene** oasA1**number** 6**gene** oasA1**number** 6**gene** oasA1**number** 7**gene** oasA1**number** 7**gene** oasA1**number** 8**gene** oasA1**number** 8**gene** oasA1**number** 9**gene** oasA1**number** 9**gene** oasA1**number** 10**exon** 2270..2379**intron** 2380..2466**exon** 2467..2524**intron** 2525..2604**exon** 2605..2868**intron** 2869..2959**exon** 2960..3097**intron** 3098..3194**exon** 3195..3246**intron** 3247..3375**exon** 3376..3455**intron** 3456..3562**exon** 3563..3622**intron** 3623..3709**exon** 3710..3790

gene oasA1

intron 3791..3898

number 1

gene oasA1

exon 3899..4242

number 11

gene oasA1

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Sequence

Characteristics

Length: 5340 BP, A Count: 1483, C Count: 1110, G Count: 1079, T Count: 1668, Others Count: 0

Sequence

Go to: General Description References Additional Sequence

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